

**Syllabus**  
**Pathological Physiology 2**  
**Summer Semester 2021/2022**  
**Week 7**

**General Medicine**

**A. Online lecture via Microsoft Teams**

1. Nervous system III
  - Vegetative nervous disorders - general symptomatology, vegetative dystonias, postural/orthostatic and regional disorders
2. Nervous system IV
  - Neurodegenerative disorders - classification; genetic basis; inclusions diseases

**B. Presence seminars**

1. Nervous system
  - Neuropathies, Myopathies
  - Demyelination disorder - classification, etiopathogenesis; Multiple sclerosis - forms, manifestations
  - Alzheimer's & Parkinson's diseases
2. Examination of knowledge (quiz, oral examination)
3. Semester work presentations according to the schedule within each group
4. Presentations of selected topics according to the systems based on a group schedules

**Dental Medicine**

**A. Online lecture via Microsoft Teams**

1. Nervous system II
  - Sensory disorders, Pain
2. Nervous system III
  - Vegetative nervous disorders - general symptomatology, vegetative dystonias, postural/orthostatic and regional disorders

**B. Presence seminars**

1. Nervous system
  - Trigeminal neuropathy; tooth pain
  - Demyelination dis.,
  - Epilepsy
2. Examination of knowledge (quiz, oral examination)
3. Semester work presentations according to the schedule within each group
4. Presentations of selected topics according to the systems based on a group schedules

Note: The range of topics and their time-table during the tutorials and seminars in each group is determined by the teacher and to a large extent, by the presentations, consultation interests, questions and readiness of the group and may vary in between groups. Neither tutorials nor seminars are lectures, but dialogue and discussion and thus require an active participation and preparation of students for the topics.

**Recommended audiovisual materials**

- Neurology - Autonomic Nervous System [https://www.youtube.com/watch?v=3a\\_aLsFvNWs](https://www.youtube.com/watch?v=3a_aLsFvNWs)
- Autonomic Testing - <https://www.youtube.com/watch?v=ASiW5bxd1F0>
- Neurogenic Orthostatic Hypotension - Medical Animation <https://www.youtube.com/watch?v=6LcX7fGaUe0>
- Parkinson's disease - causes, symptoms, diagnosis, treatment & pathology <https://www.youtube.com/watch?v=ARdGaE1sbBM>
- Alpha Synuclein Pre-Formed Fibrils (PFFs) and Oligomers for Modelling Parkinson's Disease <https://www.youtube.com/watch?v=uz-FQrcU8XU>
- Alzheimer Disease | Osmosis <https://www.youtube.com/watch?v=nPT1nD6Wh6E>

- Alzheimer: Neurofibrillary tangles and Amyloid plaques <https://www.youtube.com/watch?v=Qrr-HeapOEq>
- Inside the Brain: Unraveling the Mystery of Alzheimer's Disease [HQ] <https://www.youtube.com/watch?v=NjgBnx1jVIU>
- Huntington disease - causes, symptoms, diagnosis, treatment & pathology  
<https://www.youtube.com/watch?v=nJoS5MOgmH4>
- Friedreich's ataxia - causes, symptoms, diagnosis, treatment, pathology  
<https://www.youtube.com/watch?reload=9&v=bxuMTnQTprA>
- Neurodegenerative Disorder II - Parkinson's and Huntington's <https://www.youtube.com/watch?v=-5ywLBBL2Go>